

CONSTITUTION AND ITALIA

Gold Mining & Milling Association,
Which Has Inaugurated Extensive
Operations Upon Great Properties
in the Hermosillo District of So-
nora.

In the jurisdiction of Hermosillo, in the district of the same name, about twenty five miles eastward from the capital city of the great mining state of Sonora, and about the same distance north of Minas Prietas, the great gold camp that has a record of production going back two centuries, still in operation with more rich gold ore now in sight than ever before in its history, easily reached by good wagon roads from either Hermosillo or La Colorada (Minas Prietas), are situated the "Constitution" and "Italia" mines, which are now in the hands of a strong mining association, including in its personnel some of the best known and most widely experienced mining men in the state of Sonora who are preparing for the CONDUCT OF OPERATIONS.

As quoted in the title of this article the ownership of the property is known as the "Constitution and Italia Gold Mining & Milling Association," and includes the following named gentlemen, viz: Mr. Samuel A. Drury of Washington, D. C., Doctor A. F. Magruder of the United States Navy, Washington, D. C., Jose Paz of Ures, Sonora; Doctor John R. Magruder of Washington, D. C., and Hermosillo; Norton Lockwood, Charles R. Miles, P. H. Stouffer and Hugo Von Berkefeldt, the four last named all of Hermosillo. These

GREAT PROPERTIES have been recently visited by THE Oasis editor, who, after a careful and extended examination of the ground, the workings and the projected operations, with the machinery, now in course of construction, presents the following accurate description taken from personal observation, and his own conclusions:

The properties are located upon both sides of a deep gulch running in a general northerly direction, about two miles southwest from Tortuga mountain, a conspicuous landmark in the surrounding re-

gion, visible from considerable distances on all sides. The famous Mazatan mountain is another conspicuous landmark, about ten miles to the east and La Junta mountain is about three miles due east. The gulch mentioned has been the scene of extensive

PLACER MINING,

which has yielded great quantities of coarse gold, which all doubtless came from these properties, as the deep pits and washings of the old workings are all down the gulch below, and none of them above, indubitable proof that the stream of yellow metal recovered was fed from the rich deposits in these hills now being worked by the association named, which is

easily milled, which is 200 feet in width and 500 feet long. It doubtless extends farther at each end, and is there covered over by the porphyry; but what is exposed is all that is necessary to take into calculation in this description and estimate of values. It is in this great deposit of quartz upon the "Italia" ground that are contained the

PRESENT WORKINGS

consisting of one tunnel, five shafts and a number of drifts, all in good pay ore in all about 600 feet of work. The shafts are about fifty feet deep, and three are connected by the underground drifts, developing the ore body to the depth named and demonstrating the ex-

standing out in the crest of the little peak above. At the bottom of this shaft is one drift fifty feet N. E., another fifty feet S. W., a third nineteen feet E., and an incline eighty-five feet N. W. with a drop of fifteen feet

ALL IN ORE.

This incline drifts connects with the bottom of shaft No. 2. From the dump at shaft No. 1 ten tons of ore was taken to Minas Prietas and worked in a Huntington mill, and yielded \$5.75 gold per ton.

Shaft No. 2 is fifty feet deep, and from the bottom a drift has been driven 125 feet N. E. to the bottom of shaft No. 3, both shaft and drift in ore all the way.

Shaft No. 3 is fifty feet deep, and has several short drifts just above the bottom, all this work being in ore.

Shaft No. 4 is 100 feet N. E. of No. 3, and is 72 feet deep. This working is in good ore, and has reached water level. A double action Smith & Vail pump, now in operation, raises sufficient water to supply the mill, now in course of construction.

Shaft No. 5 is 150 feet S. E. from shaft No. 4, is forty-five feet deep and shows quartz of the same character and quality all the way down.

All these workings prove the character and quality of the ore body, and their

DISTRIBUTION IS

SUFFICIENT

to prove the extent and value of the entire ore body 500x200x50 feet, as developed, to be exactly

the same. Other prospects in various places support the calculation.

To the northwest of shaft No. 4 is an old working, which bears evidence of having been prosecuted to considerable depth and yielding good values.

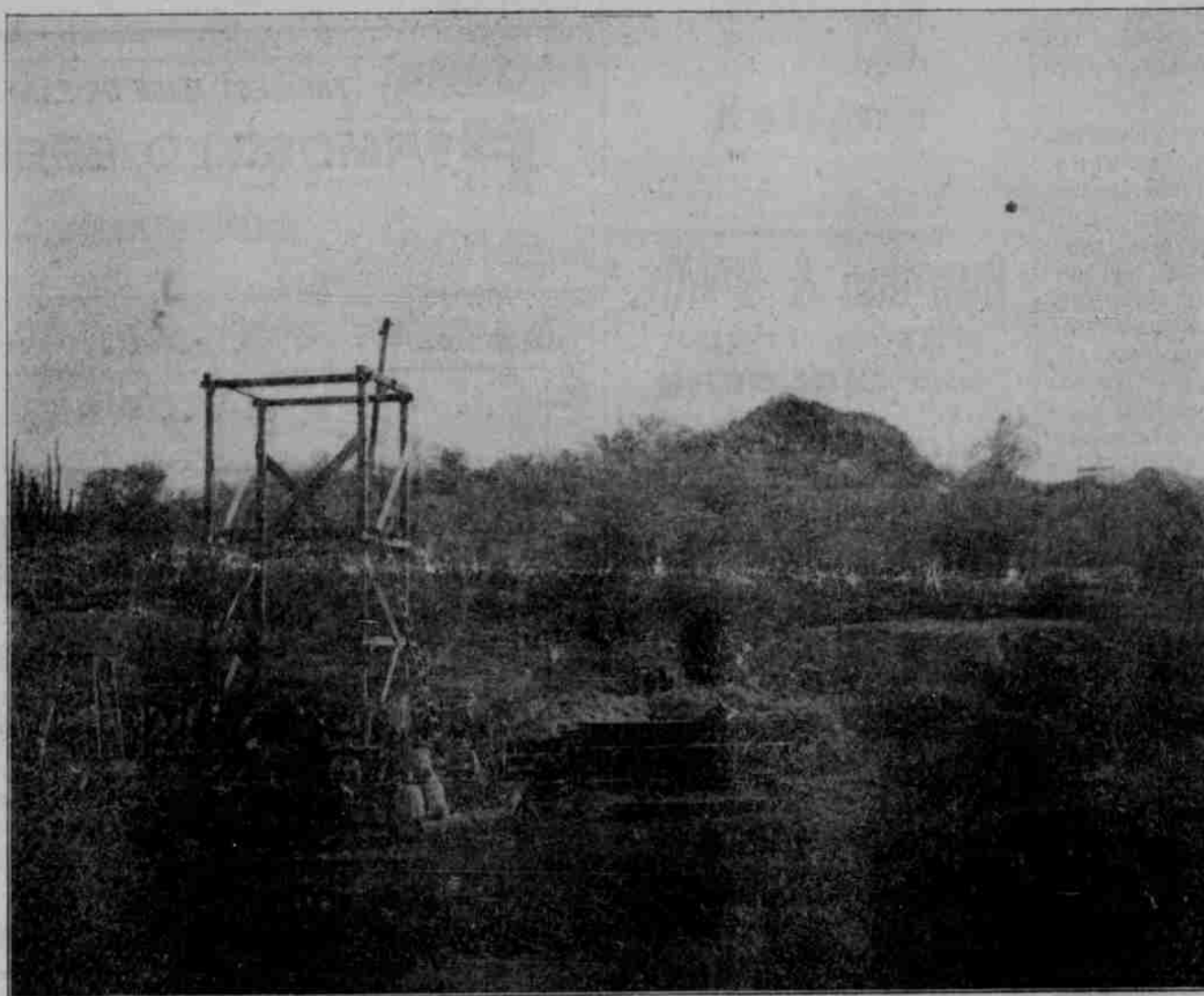
The ore can be mined at very small expense, the vein being exposed all along the east side of the gulch, just back of the millsite, where it can be extracted, shoveled out and sent down to the mill at a minimum cost.

From samples taken indiscriminately from all the works there has been taken the following:

TABLE OF ASSAYS

No. 1—Tunnel at Entrance	\$2.06
No. 2—Tunnel 25 feet from Entrance	4.76
No. 3—Tunnel " " "	4.03
No. 4—Tunnel " " "	2.96
No. 5—Tunnel " " "	4.13
No. 6—Tunnel Face, Whole Length	4.13
No. 7—Drifts in Tunnel, 24 feet from Entrance 13 feet long	4.13
No. 8—Shaft No. 1, Dump Samples	2.96
No. 9—Shaft No. 2 " "	6.15
No. 10—Shaft No. 3 " "	4.96
No. 11—Shaft No. 4 " "	2.96
No. 12—Crosscut in tunnel	8.26
No. 13—Red Outcrop, Shaft No. 5	2.96
No. 14—Big White Outcrop	2.96

Continued on page 4



MAIN TUNNEL, ITALIA MINE.

going to the very fountain head of the supply, to there wrest from the grasp of nature her precious stores. Even now the natives go down the gulch after every heavy rainstorm, and find gold that has been but just washed down from the great storehouse of values lying above. The old placer workings extended along the bottom of the gulch from its mouth up to the present workings upon the "Italia" vein, and was

PAY DIRT

all the way. The region is porphyritic, upon the east side of the gulch being a red, iron stained porphyry, while that upon the west is a grey porphyry. Even the porphyry carries values in gold, as has been shown by many different assays. Between the two porphyry belts described there crops out upon the "Italia" ground, which includes four pertenencias (400x100 metres) a great ledge of

GOLD BEARING QUARTZ,

decomposed, very much crushed and broken, soft and friable and

istence of no less than 380,000 tons of ore, which will mill not less than \$4 gold per ton, and with a total cost of mining and reduction of less than \$1 per ton will yield a net return of \$3 gold per ton, leaving in that ore body a

NET VALUE OF ONE MILLION DOLLARS or more—a very conservative calculation, as demonstrated by the table of assays and an accompanying table of cost of mining and reduction, presented hereinafter.

The tunnel enters the hill (and ore body) just to one side of the mill site, and has been driven in sixty feet, in ore all the way. From surface indications and the showing in the shafts and drifts it would be safe to assume that this tunnel will have to be driven at least 150 feet farther before encountering the porphyry wall of the vein beyond.

Shaft No. 1, and its dump are shown to the right and above the entrance to the tunnel, in the accompanying engraving, and is 100 feet west of the red porphyry,